

## IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Taoufik EN-NAJJARY, et al.

Conf.

Application No. **NEW NATIONAL PHASE**

Group

Filed September 27, 2005

Examiner

METHOD FOR ANALYZING FUNDAMENTAL FREQUENCY INFORMATION AND VOICE  
CONVERSION METHOD AND SYSTEM IMPLEMENTING SAID ANALYSIS METHOD**INFORMATION DISCLOSURE STATEMENT**  
**(SUBMISSION CONCURRENT WITH THE**  
**FILING OF A NEW PATENT APPLICATION)**Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

September 27, 2005

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- ☐ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned.

JC12 Rec'd PCT/TC 27 SEP 2005

III. CONCISE EXPLANATION OF THE RELEVANCE  
(check at least one box)

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. ☐ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

c. ☒ **FOREIGN SEARCH REPORT OR ACTION**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.


FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

Respectfully submitted,

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EJ/lpp

Enclosures: ☒ Form PTO-1449(s)  
☐ Documents  
☒ Foreign Search Report  
☐ Other: \_\_\_\_\_

10/551224  
NEW NATIONAL PHASE**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

(Use several sheets if necessary)

Attorney Docket No.:  
**0512-1296**Applicant:  
**Taoufik EN-NAJJARY, et al.**Filing Date:  
**September 27, 2005**

Group Art Unit:

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing date (if appropriate)

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

DOVAL B ET AL: "Fundamental frequency estimation and tracking using maximum likelihood harmonic matching and HMMs" STATISTICAL SIGNAL AND ARRAY PROCESSING. MINNEAPOLIS, APR. 27-30, 1993, PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP), NEW YORK, IEEE, US, vol. 4, 27 April 1993 (1993-04-27), pages 221-224, XP010110214 ISBN: 0-7803-0946-4 \* alinea "THEORY b)f0 likelihood"\* \* alinea "Hidden Markov f0 tracking"\* idem

STYLIANOU Y ET AL: "A SYSTEM FOR VOICE CONVERSION BASED ON PROBABILISTIC CLASSIFICATION AND A HARMONIC PLUS NOISE MODEL" PROCEEDINGS OF THE 1998 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING. ICASSP '98. SEATTLE, WA, MAY 12-15, 1998, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, NEW YORK, NY: IEEE, US, vol. 1 CONF. 23, 12 May 1998 (1998-05-12), pages 281-284, XP000854570 ISBN: 0-7803-4429-4 paragraphs '02.2!, '0003!, '04.2!, '04.3! paragraph '04.2! figure 1

KAIN A ET AL: "Stochastic modeling of spectral adjustment for high quality pitch modification" ICASSP 2000, vol. 2, 5 June 2000 (2000-06-05), pages 949-952, XP010504881 paragraph '0002!

EXAMINER:

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* English language abstract provided for the Examiner's convenience

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Y&amp;T September 27, 2005